#### APPENDIX H

### 510(k) SUMMARY

SUMMARY OF THE SAFETY AND EFFECTIVENESS FOR SMART SHIELD POWDER FREE PEPPERMINT SCENTED GREEN LATEX EXAMINATION GLOVESWITH A PROTEIN CONTENT LABELING

Contact person: Ong Lay Mau

This summary of safety and effectiveness information is being submitted in accordance with the requirements of SMDA 1990.

#### **Device Information:**

Trade Name - SMART SHIELD POWDER FREE PEPPERMINT SCENTED GREEN LATEX EXAM GLOVES

Common Name - Exam gloves

Classification Name - Patient examination glove (per 21 CFR 880.6250)

Classification Information - Class I latex patient examination glove 80LYY, powder free and meeting all the requirements of ASTM-D3578-99 Standard Specification for Latex Examination Gloves for Medical Application.

### **Device Description:**

Class I latex patient examination gloves 80LYY, powder free and meeting all the requirements of ASTM-D3578-99 Standard Specification for Latex Examination Gloves for Medical Application.

#### **Intended Use of Device:**

A medical glove to be worn on the hand of the health care and similar personnel to prevent contamination between health care personnel and patient.

Technological Characteristics of Device:

#### 1. Dimension

DIMENSION	ASTM D3578-99	SMART SHIELD	
X-Small Small Medium Large	70 mm +/- 10 mm 80 mm +/- 10mm 95 mm +/- 10mm 111mm +/- 10mm	70 - 75 mm 80 - 85 mm 90 - 97 mm 105 - 111 mm	
Length	230 mm minimum for all sizes	242mm	
Thickness - Finger Palm	0.08mm min 0.08mm min	0.08 mm min 0.08 mm min	

# 2. Physical Properties (ASTM-D3578-99 Standard Specification for Latex Exam Gloves)

	TENSILE STRENGTH		ULTIMATE ELONGATION		
	ASTM-D3578-99	SHIELD's	ASTM-D3578-99	SHIELD's	
Before Aging	14.0 Mpa min	21.0 Mpa	700 %	800%	
After Aging 14.0 Mpa min 22 hrs @100C		16.0 Mpa	500%	750%	

# 3. Water Tight Test

Using the FDA specified 1,000 ml water leak test, 200 pieces of each size of the gloves were tes and our results are as given below:

CONSIGMENT #	SIZE	SAMPLE SIZE	LEAK STATUS	NUMBER LEAKED
3370/3371	X-Small	200	Yes	3
3370/3371	Small	200	Yes	3
3370/3371	Medium	200	Yes	4
3370/3371	Large	200	Yes	3

The above figures are within the FDA/ ASTM requirements for latex exam gloves of 2.5% AQL.

### 4. Biocompatibility

The test results below show that the gloves meet FDA biocompatibility requirements:

**BIOCOMPATIBILITY TESTS** 

**RESULTS** 

Primary Dermal Irritation Test

Not a primary irritant

Skin Sensitization Study

Not a sensitiser

# 5. Total Residual Powder Content & Presence of Cornstarch

TESTS	FDA INTERNAL REQUIREMENT	SHIELD's
Residual Powder Content per ASTM D 6124-97	2 mg/glove max	Range: 1.2-1.7mg/glove Mean: 1.5 mg/glove
Presence of Cornstarch	Negative	Negative

# 6. Residual Protein Level

TESTS	FDA ALLOWABLE LEVEL	CLAIMED LEVEL	
ASTM D 5712-95	< 50 μg/g	< 50 μg/g Range: 26-34	
		Mean: 31	

### Conclusion:-

The data presented indicate that the Royal Shield Powder Free Peppermint Scented Green latex examination glove with a protein labeling claim qualifies to be labeled as such since it

- 1. meets/exceeds ASTM- D3578-99 Standard Specifications For Latex Examination Glove,
- 2. meets FDA pinhole requirements,
- 3. meets SHIELD's labeling claim of its being a powder free glove.
- 4. meets the protein labeling claim level at  $<50~\mu g/g$



Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

## FEB 1 8 2000

Shield Gloves Manufacturer (M) SDN BHD c/o Ms. Janna P. Tucker
Official Correspondent
Tucker and Associates
198 Avenue De La D'emerald
Sparks, Nevada 89434-9550

Re: K000156

Trade Name: Smart Shield Powder Free Latex Examination Gloves Green, Peppermint Scented, Contains 50 Mcgm or Less of Total Water Extractable Protein Per Gram

Regulatory Class: I Product Code: LYY

Dated: January 14, 2000 Received: January 19, 2000

Dear Ms. Tucker:

We have reviewed your Section 510(k) notification of intent to market the device referenced above and we have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act). You may, therefore, market the device, subject to the general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (Premarket Approval), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the <u>Code of Federal Regulations</u>, Title 21, Parts 800 to 895. A substantially equivalent determination assumes compliance with the Good Manufacturing Practice for Medical Devices: General (GMP) regulation (21 CFR Part 820) and that, through periodic GMP inspections, the Food and Drug Administration (FDA) will verify such assumptions. Failure to comply with the GMP

regulation may result in regulatory action. In addition, FDA may publish further announcements concerning your device in the Federal Register. Please note: this response to your premarket notification submission does not affect any obligation you might have under sections 531 through 542 of the Act for devices under the Electronic Product Radiation Control provisions, or other Federal laws or regulations.

This letter will allow you to begin marketing your device as described in your 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801 and additionally 809.10 for in vitro diagnostic devices), please contact the Office of Compliance at (301) 594-4692. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its internet address "http://www.fda.gov/cdrh/dsmamain.html".

Sincerely, yours,

Timothy A. Ulatowski

Director

Division of Dental, Infection Control and General Hospital Devices Office of Device Evaluation Center for Devices and Radiological Health

Enclosure

# **INDICATIONS FOR USE STATEMENT**

	510K Number:	1000156			
	Device Name: Sm Sc Indications For Use	art Shield Powder F ented, Confain Efein per gran	ree Latex Examin s som am o n	lation Gloves green, I rless of to the cer	perestract
	This is a me prevent contaminat	edical glove to be wo	orn on the hand o care personnel an	f health care and similar d the patient.	personnel to
		•			
			•		
	Сс	oncurrence of CDRI	H Office of Device	e Evaluation (ODE)	
	Prescription Use Per 21 CFR 801.10		OR	Over-The-Counter	<b>X</b>
R Led Clim					

(Division Sign-Off)

510(k) Number \_\_\_\_

Division of Dental, Infection Control, and General Hospital Devices
510(k) Number

Applicant: Shield Gloves Manufacturer (M) Sdn Bhd.